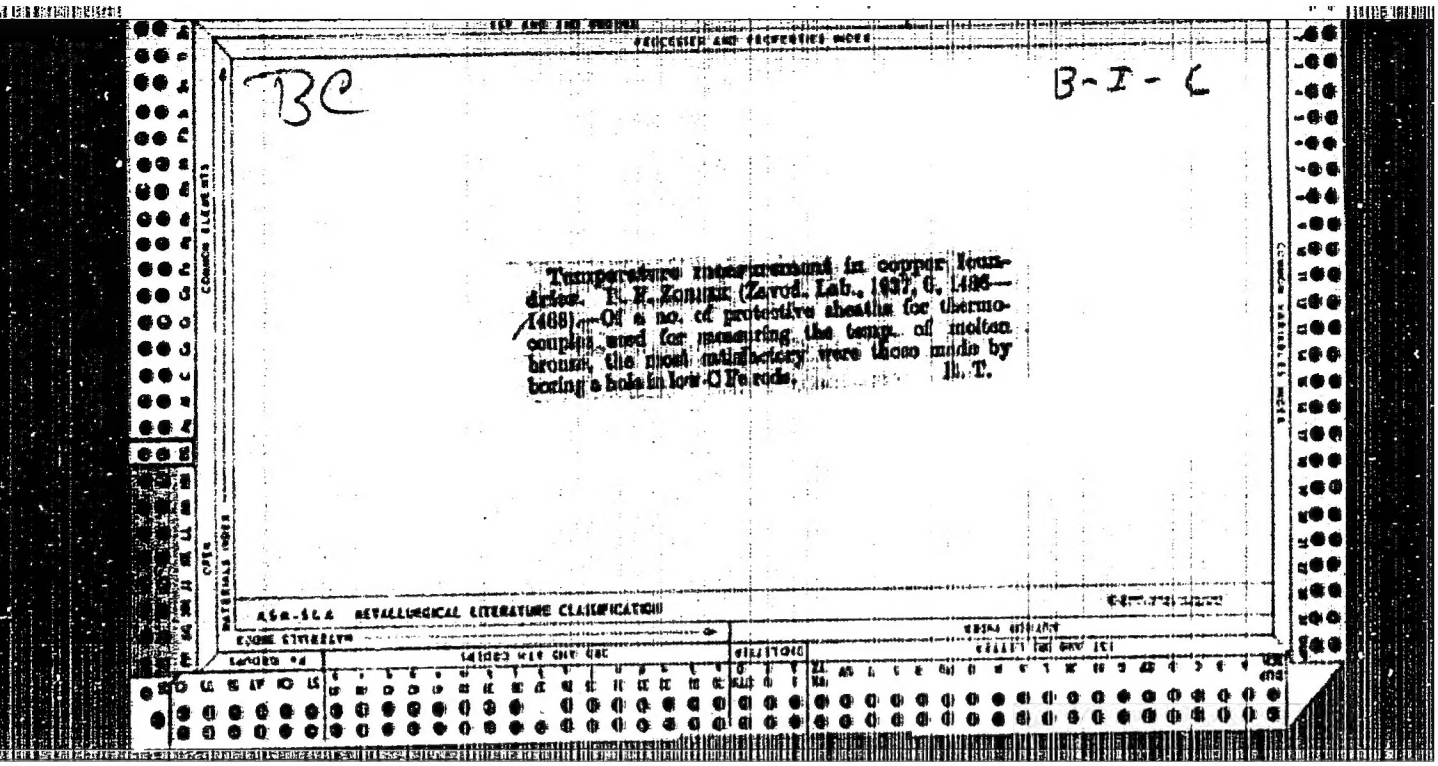
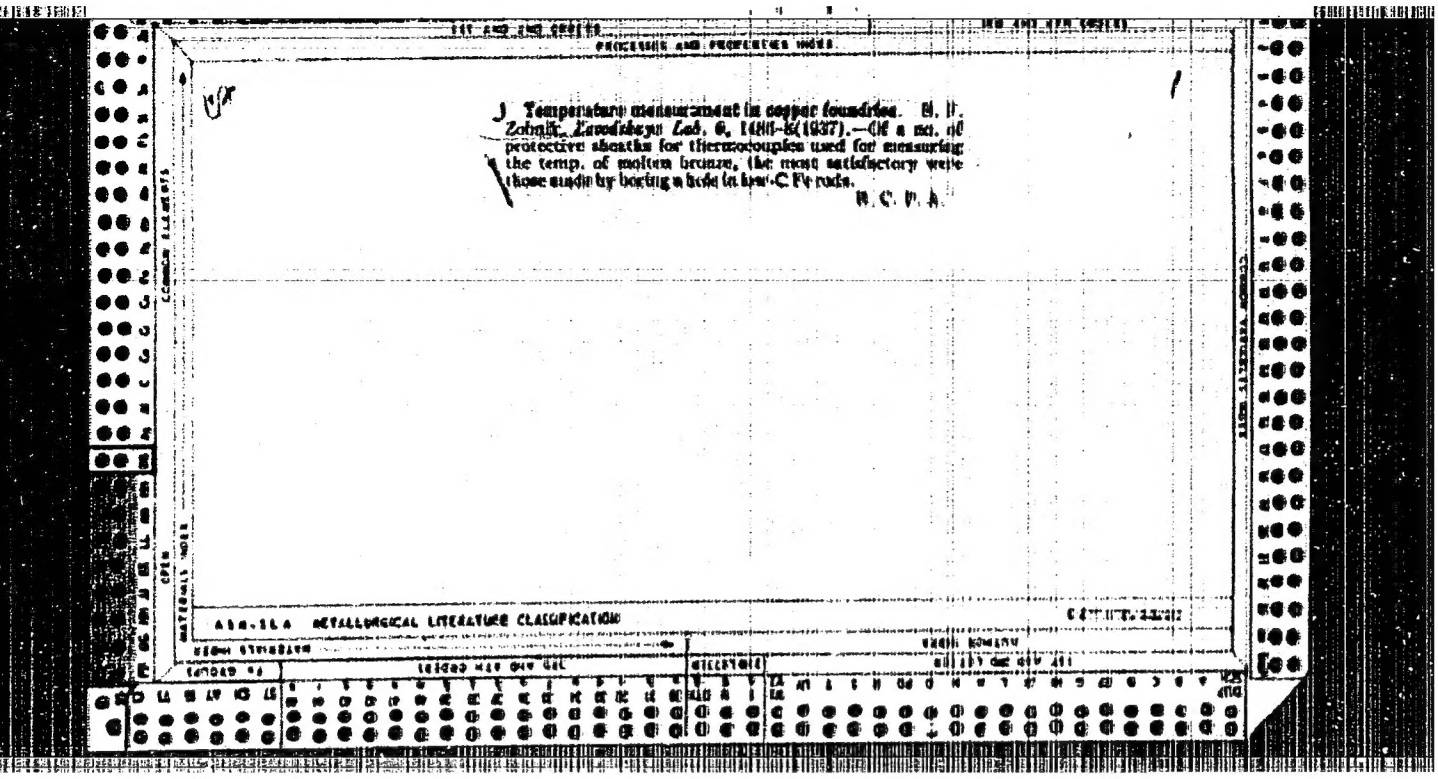


BC

B-I-C

Temperature measurement in copper foundries. T. K. Zonina (Zavod. Lab., 1937, 6, 1486—1488).—Of a no. of protective sheaths for thermocouples used for measuring the temp. of molten bronze, the most satisfactory were those made by boring a hole in low-C Fe rods. H. T.



J Temperature measurement in copper foundries. B. P. Zobnin. *Zavodskaya Lab.*, 6, 1481–6(1937).—Of a no. of protective sheaths for thermocouples used for measuring the temp. of molten bronze, the most satisfactory were those made by boring a hole in low-C Fe rods.

M. C. V. A.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

ARBEN'YEV, A., inzh.; ZOBNIN, A., inzh.

Effective method of winter concreting. Na stroi. Ros. 3 no.10: 23-24 O '62. (MIRA 16:6)

(Concrete construction—Cold weather conditions)

ZOBNIN, B.A., inzh.

Small launches with underwater wings. Sudostroenie 25 no.10:6-7 O '59. (MIRA 13:2)

(Launches) (Planing hulls)

ZOBNIN, A.O.

Letter to the editors. Lit. proizv. no.1:48 Ja '61.
(MIRA 14:1)

(Aluminum founding)

B/128/61/000/001/009/009
A054/A133

AUTHOR: Zobnin, A. O.

TITLE: Letter to the editor

PERIODICAL: Liteynoye proizvodstvo, no. 1, 1961, 48

TEXT: In V. I. Ivanov's article: Application of exothermal mixtures with ferro-aluminum (Liteynoye proizvodstvo, no. 4, 1960) some methods were described how to obtain aluminum shot. According to A. O. Zobnin, these methods are labor-consuming, inefficient and expensive. Another method, applied successfully is recommended, requiring a container two thirds of which are filled with water. Air is supplied from the air mains to the nozzle, the air-flow being regulated by a tap. Molten aluminum is poured into the container from the ladle through a spout, made of 30 x 30 mm angle steel. While flowing through the spout the aluminum passes below the compressed air-jet and crumbles. By controlling air and aluminum feed, it is possible to obtain shot of various size. When water-cooled the shot sinks down to the container bottom. Even in this simple form the equipment is efficient. The output could be raised by mounting stationary ladle with a hole in the bot-

Card 1/2

Letter to the editor

S/128/61/000/001/009/009
A054/A133

tom and by applying electric heating to maintain the required temperature. There is 1 figure.

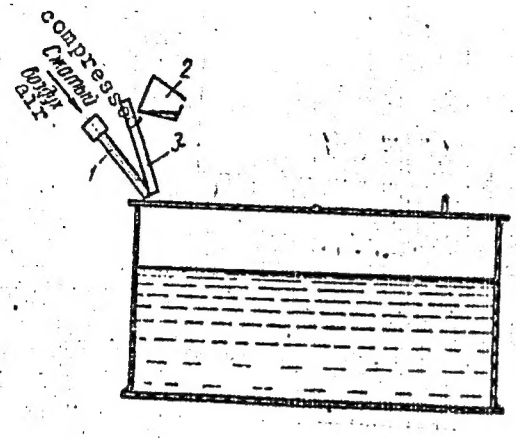


Figure:

1 - nozzle (pipe end);
2 - tap;
3 - spout;

Card 2/2

OBOZOV, G.S.; ZOBNIN, B.

Improved lap filling of the roll and its covering with slubbing on single-process scutching machines with automatic lap doffing. Tekst. prom. 25 no.10:30-32 O '65. (MIRA 18:10)

1. Nachal'nik sortirovochno-trepal'nogo tsekha Khersonskogo khlopchatobumazhnogo kombinata (for Obonov). 2. Nachal'nik sortirovochno-trepal'nogo tsekha kombinata "Krasnyy perekop" (for Zobnin).

ZUBKIN, B.F.

KUZELEV, Mikhail Yakovlevich; SKVORTSOV, Aleksey Anatol'yevich; SHELYAKOV, Nikolay Nikolayevich; ZUBKIN, B.F., kandidat tekhnicheskikh nauk, retsenzent; BORETSKIY, A.A., dotsent, otvetstvennyy redaktor; VOLFYANSKIY, L.M., inzhener; redaktor; GUREVICH, M.R., inzhener, redaktor; DEMAKOV, A.F., inzhener, redaktor; ZAKHAROV, B.P., inzhener, redaktor; SVYREV, K.M., inzhener, redaktor; KOKOVINA, A.S., inzhener, redaktor; NESTEROV, B.A., inzhener, redaktor; RAZUMOVA, K.S., inzhener, redaktor; SIDORENKO, R.A., inzhener, redaktor; ROZENBERG, I.A., kandidat tekhnicheskikh nauk, redaktor; DUGINA, N.A., tekhnicheskiy redaktor

[Foundry worker's handbook] Spravochnik rabochego-litoishchika. Izd. 2-oe, dop. i perer. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956. 634 p. (MIRA 10:4)
(Founding)

PROCESSES AND PROPERTIES INDEX

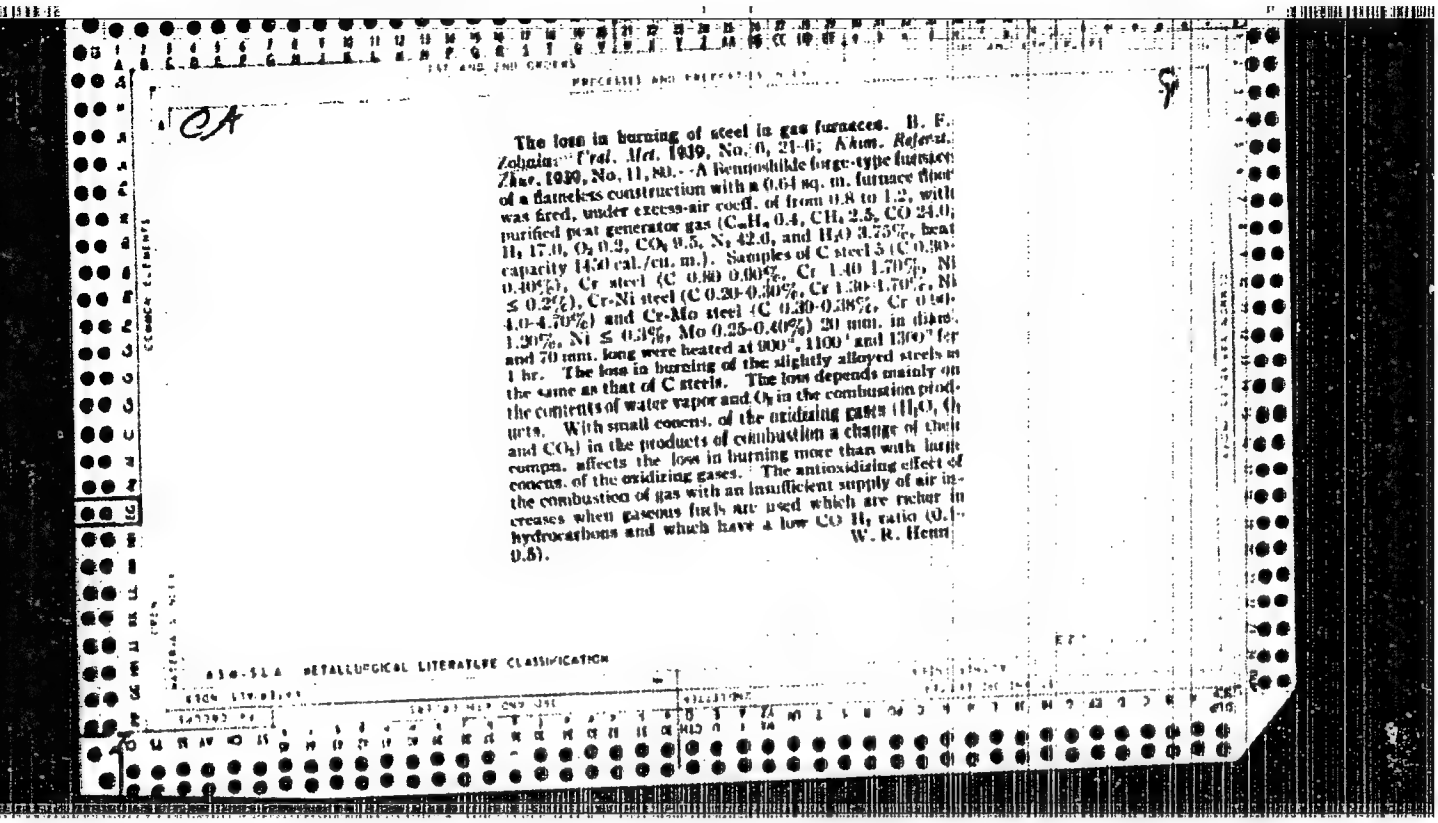
BC

B-I-10

Control of the moisture content of [wooden] moulds during drying. [illegible] Zavod. Lab. 1938, 7, [illegible].—A special thermocouple, termed a thermohygrometer, is described. The drying of wooden moulds is controlled by registration of the temp. of the wood at a depth of 10 cm.; the temp. at first rises rapidly, and then remains at 100° until dehydration is practically complete. R. T.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065320015-7"

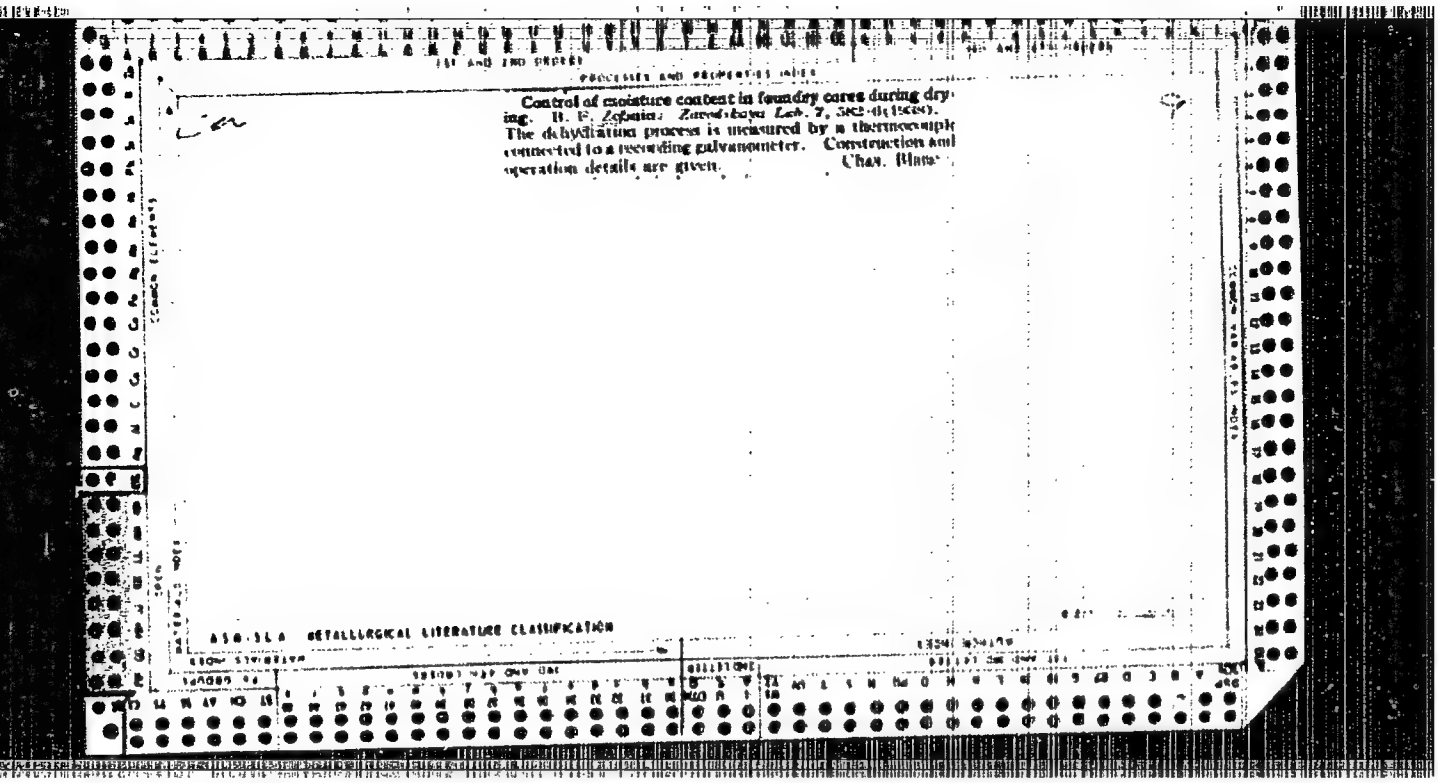


CA

The loss in burning of steel in gas furnaces. B. F. Zahgin. *Trud. Mct.* 1939, No. 6, 21-6; *Khim. Referat. Zhur.* 1939, No. 11, 80.—A Bennoshikle forge-type furnace of a flameless construction with a 0.64 sq. m. furnace floor was fired, under excess-air coeff. of from 0.8 to 1.2, with purified peat generator gas (C_nH_m 0.4, CH_4 2.5, CO 24.0, H_2 17.0, O_2 0.2, CO_2 9.5, N_2 42.0, and H_2O 3.75%, heat capacity 1450 cal./cu. m.). Samples of C steel 5 (C 0.30-0.40%), Cr steel (C 0.80 0.00%, Cr 1.40 1.70%, Ni ≤ 0.2%), Cr-Ni steel (C 0.20-0.30%, Cr 1.30-1.70%, Ni 4.0-4.70%) and Cr-Mo steel (C 0.30-0.38%, Cr 0.80-1.20%, Ni ≤ 0.3%, Mo 0.25-0.40%) 20 mm. in diam. and 70 mm. long were heated at 900°, 1100° and 1300° for 1 hr. The loss in burning of the slightly alloyed steels is the same as that of C steels. The loss depends mainly on the contents of water vapor and O_2 in the combustion products. With small concns. of the oxidizing gases (H_2O, O_2 and CO_2) in the products of combustion a change of their compn. affects the loss in burning more than with large concns. of the oxidizing gases. The antioxidizing effect of the combustion of gas with an insufficient supply of air increases when gaseous fuels are used which are richer in hydrocarbons and which have a low CO H_2 ratio (0.1-0.5).

W. R. Henn

A36-S1A METALLURGICAL LITERATURE CLASSIFICATION



Control of moisture content in foundry cores during dry-
ing. B. F. Zobnin. *Zavod. Lab.* 7, 562-4(1938).
The dehydration process is measured by a thermocouple
connected to a recording galvanometer. Construction and
operation details are given. Chas. Blanz

A50-51A METALLURGICAL LITERATURE CLASSIFICATION

ZOBNIN, B.F.; TEBEN'KOV, B.P., kand. tekhn.nauk, retsenzent;
LIFSHITS, A.Ye., kand. tekhn. nauk, red.

[Heating furnaces; theory and design] Nagrevatel'nye pechi; teoriia i raschet. Moskva, Mashinostroenie, 1964. 310 p. (MIRA 18:2)

TROIB, S.G., doktor tekhn. nauk, prof.; ZOBNIN, B.F., nauchn. red.
VAKHTINA, Ye.F., tekhn. red.

[Establishing norms for fuel consumption in furnaces] Normirovanie raskhoda topliva v pechakh; uchebnoe posobie. Sverdlovsk, Ural'skii politekhn. in-t, 1963. 72 p.
(MIRA 17:4)

ZOBNIN, B.F.

Over-all calculations of thermal processes in a holding furnace. Izv. vys. ucheb. zav.; chern. met. no.2:169-174 '60. (MIRA 15:5)

1. Ural'skiy politekhnicheskiy institut.
(Furnaces, Heating--Combustion)
(Heat--Transmission)

ZOBNIN, B. F.

LEBEDEV, Nikolay Sergeyevich; ZOBNIN, B.F., kandidat tekhnicheskikh nauk, retsenzent; KOBYAKOV, P.V., kandidat tekhnicheskikh nauk, nauchnyy redaktor; DUGINA, N.A., tekhnicheskiy redaktor

[Gas heat-treatment furnaces; construction and operation] Gazovye nagrevatel'nye pechi; konstruktsii i ekspluatatsiia. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956. 185 p. (MLRA 10:4)

(Furnaces, Heat--Treating)

SOKOLOV, V.N., kandidat tekhnicheskikh nauk; KUROYEDOV, V.A., kandidat tekhnicheskikh nauk; SOROKIN, A.I., kandidat tekhnicheskikh nauk; LEBEDEV, A.V., inzhener; ZOBNIN, B.F., inzhener; VOYEVODKIN, I.B., inzhener.

Investigation of the heating of large ingots. [Trudy] TSNIITMASH 66:83-115 '54. (MLRA 7:9)

1. TSNIITMASh (for Kuroyedov). 2. Uralmashzavod (for Voyevodkin). (Steel ingots) (Metals--Heat treatment)

KUZELEV, Mikhail Yakovlevich; SKVORTSOV, Aleksey Anatol'yevich; SHELYAKOV, Nikolay Nikolayevich; DUBITSKIY, G.M., doktor tekhn. nauk, retsenzent; ZOBNIN, B.F., kand. tekhn. nauk, retsenzent; KOROTKOV, V.G., kand. tekhn. nauk, retsenzent; LEVCHENKO, P.V., kand. tekhn.nauk, retsenzent; MAKURIN, P.I., kand. tekhn. nauk, retsenzent; PASTUKHOV, A.I., kand. tekhn. nauk, retsenzent; PORUCHIKOV, Yu.P., kand. tekhn. nauk, retsenzent; ROZENBERG, I.A., kand. tekhn. nauk, retsenzent; SERGEICHEV, N.F., kand. tekhn. nauk, retsenzent; FILIPPOV, A.S., kand. tekhn. nauk, retsenzent; YAROSHENKO, Yu.G., kand. tekhn. nauk, retsenzent; BAZAROVA, N.V., inzh., retsenzent; BLANK, E.M., inzh., retsenzent; VOLPYANSKIY, L.M., inzh., retsenzent; ZAKHAROV, B.P., inzh., retsenzent; MISHALOV, S.V., inzh., retsenzent; RAZUMOVA, M.S., inzh., retsenzent; SHABALIN, L.A., inzh., retsenzent; SHKUNDI, R.M., inzh., retsenzent; DUGINA, N.A., tekhn. red.

[Handbook of foundry practice] Spravochnik rabochego-liteishchika. Izd.3. Moskva, Mashgiz, 1961. 584 p. (MIRA 15:4)
(Founding--Handbooks, manuals, etc.)

ZOBNIN, M.I.

Construction of the open spillway. Energ.stroi. no.24:93-98 '61. (MIRA 15:4)

1. Nachal'nik Narvskogo uchastka tresta "Gidromekhanizatsiya". (Narva region--Spillways)

ZOBNIN,N., professor, doktor tekhnicheskikh nauk

Reserve strength in rolling stock wheel pairs. Zhel.dor.transp. no.12:60-63 D '47. (MLRA 8:12)

(Wheels)

ZOBNIN, N.P.

ZOBNIN, N.P., doktor tekhn. nauk, prof.

Durability of axle hardening by rolling. Vest. mash. 38 no.1:30-31 Ja '58. (MIRA 11:1)

(Car axles)

ZOBNIN, Nikolay Pavlovich, prof., doktor tekhn. nauk, red.; SHISHKIN, Aleksey Alekseyevich, dots., kand. tekhn. nauk,; YUDIN, Daniil L'vovich, dots., kand. tekhn. nauk,; DANILEVSKIY, V.V., dots., kand. tekhn. nauk, red.; BRAYLOVSKIY, N.G., inzh., red.; BOBROVA, Ye. N., tekhn. red.

[Metal cutting] Obrabotka metallov rezaniem. Pod red. N.P. Zobnina. Moskva, Gos. transp. zhel-dor. izd-vo, 1958. 256 p. (MIRA 11:10)

1. Moskovskiy institut inzhenerov zheleznodorozhnogo transporta im. I.V.Stalina (for Zobnin, Yudin). 2. Rostovskiy institut inzhenerov zheleznodorozhnogo transporta(for Shishkin).
(Metal cutting)

ZOBNIN, N.P.

Stability of surface hardening of axles by burnishing. Trudy Sem.po kach.poverkh. no.5:64-70 '61. (MIRA 15:10)
(Surface hardening)

S/514/61/000/005/003/014
I007/I207

AUTHOR: Zobin, N.P.

TITLE: Durability of surface hardness of axles machined by rolling

SOURCE: Akademiya nauk SSSR. Komissiya po tekhnologii mashinostroyeniya. Seminar po kachestvu poverkhnosti. Trudy, no.5, 1961, Kachestvo poverkhnosti detaley mashin; metody i pribory, uprochneniye metallov, tekhnologiya mashinostroeniya, 64-70

TEXT: The service-life of railroad - car axles, and hence the safety of railroad transport, depends to a great extent on their surface hardness and mechanical strength. At present, a special technology for machining of railroad car axles by rolling is gaining increasing acceptance. In order to study the durability of surface hardness of axes so machined, the Laboratory for Metal Cutting, of the Moskovskiy Institut Inzhenerov zheleznodorozhnogo transporta (Moscow Institute for Engineers of Railroad Transport) carried out special experiments. 5 steel specimens were subjected to comparative cycling tests on a four-spindle test machine, after their machining by metal cutting and rolling. The tests were carried out in two stages 1). preliminary

Card 1/2

S/514/61/000/005/003/014
I007/I207

Durability of surface...

stage-testing at 200 million cycles; 2). final stage small-dank testing at 500 million cycles. The test results, presented in tables, showed that the endurance limit of car axles increased by a factor of 1.93 which, under conditions of field operations, is of particular importance. Machining by rolling increases at the same time wear resistance, due to the work-hardening effect. The test results also revealed a sufficient durability of surface hardness of railroad-car axles machined by rolling. There are 2 figures and 3 tables.

Card 2/2

ALFEROV, A.A.; ARTEMKIN, A.A.; ASHKENAZI, Ye.A.; VINOGRADOV, G.P.; GALUYEV, A.U.; GRIGOR'YEV, A.N.; D'YACHENKO, P.Ye.; ZALET, N.N.; ZAKHAROV, P.M.; ZOBNIN, N.P.; IVANOV, I.I.; IL'IN, I.P.; KHETIK, P.I.; KUDRYASHOV, A.T.; LAPSHIN, F.A.; MOLYARCHUK, V.S.; PERETSOVSKIY, L.M.; POGODIN, A.M.; RUDOY, M.L.; SAVIN, K.D.; SIMONOV, K.S.; SITKOVSKIY, I.P.; SITNIK, M.D.; TETEREV, B.K.; TSETYRKIN, I.Ye.; TSUKANOV, P.P.; SHADIKYAN, V.S.; ADELUNG, N.N., retsenzent; AFANAS'YEV, Ye.V, retsenzent; VLASOV, V.I., retsenzent; VOROB'YEV, I.Ye., retsenzent; VOROBNOV, N.M., retsenzent; GRITCHENKO, V.A., retsenzent; ZHERREBIN, M.N., retsenzent; IVLIYEV, I.V., retsenzent; KAPORTSEV, N.V., retsenzent; KOCHUROV, P.M., retsenzent; KRIVORUCHKO, N.Z., retsenzent; KUCHKO, A.P., retsenzent; LOBANOV, V.V., retsenzent; MOROZOV, A.S., retsenzent; ORLOV, S.P., retsenzent; PAVLUSHKOV, E.D., retsenzent; POPOV, A.N., retsenzent; PROKOF'YEV, P.F., retsenzent; RAKOV, V.A., retsenzent; SINEGUBOV, N.I., retsenzent; TERENIN, D.F., retsenzent; TIKHOMIROV, I.G., retsenzent; URBAN, I.V., retsenzent; FIALKOVSKIY, I.A., retsenzent; CHEPYZHEV, B.F., retsenzent; SHEBYAKIN, O.S., retsenzent, SHCHERBAKOV, P.D., retsenzent; GARNYK, V.A., redaktor; LOMAGIN, N.A, redaktor; MORDVINKIN, N.A., redaktor; NAUMOV, A.N., redaktor; POBEDIN, V.F., redaktor; RYAZANTSEV, B.S., redaktor; TVERSKOY, K.N., redaktor; CHEREVATYY, N.S., redaktor; ARSHINOV, I.M., redaktor; BAHELYAN, V.B., redaktor; BERNGARD, K.A., redaktor; VERSHINSKIY, S.V., redaktor; GAMBURG, Ye.Yu., redaktor; DHRIBAS, A.T., redaktor; DOMBROVSKIY, K.I., redaktor; KORNEYEV, A.I., redaktor; MIKHEYEV, A.P., redaktor

(Continued on next card)

ALFEROV, A.A. ---- (continued) Card 2.
MOSKVIN, G.N., redaktor; RUBINSHTEYN, S.A., redaktor; TSYPIN, G.S., redaktor; CHERNYAVSKIY, V.Ya., redaktor; CHERNYSHEV, V.I., redaktor; CHERNYSHEV, M.A., redaktor; SHADUR, L.A., redaktor; SHISHKIN, K.A., redaktor

[Railroad handbook] Spravochnaia knizhka zheleznodorozhnika, Izd. 3-e, ispr. i dop. Pod obshchei red. V.A.Garnyka. Moskva, Gos. transp.zhel-dor. izd-vo, 1956. 1103 p. (MLRA 9:10)

1. Nauchno-tekhnicheskoye obshchestvo zheleznodorozhnogo transporta. (Railroads)

ZOBNIN, Nikolay Pavlovich, prof., doktor tekhn.nauk; YUDIN, Daniil L'vovich, dots., kand.tekhn.nauk; SHISHKIN, Alekxey Alekseyevich, dots.,kand.tekhn.nauk; ROGOV, Aleksandr Yakovlevich, dots., kand.tekhn. nauk; REKUDANOV,P.N., kand.tekhn.nauk,retsenzent; SARANTSEV,Yu.S., inzh., red.; BOBROVA, Ye.N., tekhn. red.

[Metal cutting] Obrabotka metallov rezaniem. Izd.2. Moskva, Transzheldorizdat, 1962. 299 p. (MIRA 15:6)

1. Moskovskiy institut inzhenerov zheleznodorozhnogo transporta (for Zobnin, Yudin, Rogov). 2. Rostovskiy institut inzhenerov zheleznodorozhnogo transporta (for Shishkin).
(Metal cutting)

ZOBNIN, N. P., Prof.

Axles

Effect of burnishing the fitting surfaces of axles with rollers on their endurance and resistance to pressure. Vest. mash , 32, No. 3, 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952. UNCLASSIFIED.

ZORNIN, Nikolay Pavlovich, professor; VOSKRESENSKIY, N.N., inzhener, redaktor; BOBROVA, Ye.N., tekhnicheskiy redaktor

[Machining of parts for wheel pairs] Mekhanicheskaia obrabotka detalei kolesnykh par. Moskva, Gos. transp.zhel-dor. izd-vo, 1956. 238 p. (Car wheels) (MLRA 10:1)

ZOBNIN, N.P.

ZOBNIN, N.P., doktor tekhn. nauk, prof.; ROGOV, A.Ya., kand. tekhn. nauk, dots.; KHAPKO, V.U., assistent.

Strengthening wheel pair axles by rolling. Trudy MIIT no.93:3-72 '57. (MIRA 11:4)

(Car axles) (Rolling (Metalwork))

ZOBNIN, N.P.

Effect of cold rolling on the endurance of pressed joints. Trudy Sem.po kach.poverkh.2:58-81 '53. (MLRA 7:2)
(Car wheels) (Axles) (Metals--Cold working)

ZOBNIN, N.P.

BRAVICHEV, V.A., kandidat tekhnicheskikh nauk, dotsent; BRODOVICH, M.V., kandidat tekhnicheskikh nauk; VLASOV, V.I., kandidat tekhnicheskikh nauk, retsenzent, redaktor; YEGOROV, A.M., professor, retsenzent, redaktor; ZOBNIN, N.P., doktor tekhnicheskikh nauk, professor,; IVANNIKOV, D.G., kandidat tekhnicheskikh nauk, dotsent; KIRKIN, V.G., doktor tekhnicheskikh nauk,professor; KOTOV, O.K. kandidat tekhnicheskikh nauk; MARIYENBAKH, L.M., doktor tekhnicheskikh nauk, professor; MASHONIN, P.A., inzhener, RUBINSHTEYN, S.A., inzhener, RUDOY, M.L. inzhener, YUDIN , D.L., kandidat tekhnicheskikh nauk, dotsent, redaktor; PETROV, N.I., inzhener, retsenzent; SIDOROV, S.I., inzhener, retsenzent; SOKOLOV, I.G., kandidat tekhnicheskikh nauk, retsenzent; BERESTOVA, Ye.I., inzhener, retsenzent; DOBOKHIN, P.N., kandidat tekhnicheskikh nauk, retsenzent; RUSTEM, S.L., kandidat tekhnicheskikh nauk, dotsent, redaktor; LARIN, M.N., laureat Stalinskoy premii, professor, doktor tekhnicheskikh nauk, retsenzent; SOKOLOV, A.V., inzhener, retsenzent; GRUDOV, P.P., laureat Stalinskoy premii, dotsent kandidat tekhnicheskikh nauk, retsenzent;DONNER, L.L., inzhener, retsenzent; ZOBNIN, professor, doktor tekhnicheskikh nauk, retsenzent; BELAVENTSEV, N.V., inzhener, retsenzent; SYCHEV, B.P., dotsent, retsenzent; SHKOL'NIK, L.M., kandidat tekhnicheskikh nauk, retsenzent; LOBANOV, D.V., kandidat tekhnicheskikh nauk,dotsent, retsenzent, redaktor; MASHONIN, P.A., inzhener, retsenzent, redaktor; OBUKHOV, A.V., inzhener, redaktor; BELETSKIY, D.G., kandidat tekhnicheskikh nauk, dotsent, redaktor; ODING, I.A., redaktor; LEVITSKIY, kandidat tekhnicheskikh nauk, dotsent, redaktor; YUDSON, D.M., tekhnicheskiy redaktor

(Continued on next card)

BRAVICHEV, V.A, kandidat tekhnicheskikh nauk, dotsent; & others (Card 2)

[Railroad man's technical manual] Tekhnicheskii spravochnik zheleznodorozhnika. Red.kollegiia; V.I. Vlasov, A.N.Egornov, N.P. Zobnin, E.F Rudoi (Glav.red.) A.V.Sokolov. Moskva, Gos.transportnoe zhel-dor.izd-vo. Vol. 12 [Processing metals at railroad transport enterprises] Obrabotka metallov na predrpiiatiiakh zheleznodorozhnogo transporta. Otvet.red. N.P.Zobnin. 1954. 671 p.(MLRA 8:11)

1. Chlen-korrespondent, AN SSSR (for Oding)
(Mechanical engineering)

ZOBNIN, N.P., doktor tekhn.nauk, prof.; KHAPKO, V.U., kand.tekhn.nauk, dotsent

Increasing the efficiency of the cutting of gear wheels for locomotive transmissions. Trudy MIIT no.20[illegible] 1-24.

Mechanical hardening of gear wheels with the relieved surface of a worm cutter on the gear cutting machine. Ibid.:47-53

(MIRA 18:8)

ZOBNIN, N.P.

ZOBNIN, N.P., professor, doktor tekhnicheskikh nauk

Effect of knurling axles on the strength of press fits. Tekh.zhel. dor.7 no.10:25-26 O '48. (MLRA 8:11)

(Axles)

ZOBNIN, M.P., professor, doktor tekhnicheskikh nauk

Press working of hub seats and hubs. Tekh.zhel.dor.6 no.12:17-18 D'47. (MLRA 8:12)

(Car axles)

21965 ZOBNIN, N. P.

Kachestvo obrabotannykh poverkhnostey i prochnost' pressovykh soyedimeniy osey.
Trudy Mosk. elektromekhan. in - ta inzhenerov zh.-d. Transporta im. Dzerzhinskogo, Vyp. 58, 1949, s. 127-207.
Bibliogr: 12, NAZV

SO: Letopis' Zhurnal'nykh Statey, No. 29, Moskva, 1949

25(7) PHASE I BOOK EXPLOITATION SOV/1215

Zobnin, Nikolay Pavlovich; Shishkin, Aleksey Alekseyevich; and Yudin, Daniil L'vovich

Oborabotka metallov rezaniyem (Metal Cutting) Moscow, Transzheldorizdat, 1958. 256 p. 6,000 copies printed.

Ed. (Title page): Zobnin, N.P., Doctor of Technical Sciences, Professor; Eds. (Inside book): Danilevskiy, V.V., Candidate of Technical Sciences, Docent, and Braylovskiy, N.G., Engineer; Tech. Ed.: Bobrova, Ye. N.

PURPOSE: This book is approved by the Ministry of Higher Education, USSR, as a handbook for railroad transport vuzes. It may also be useful to engineers and technicians in plants and in railroad repair shops for rolling stock, wheels and track.

COVERAGE: The book presents the theoretical fundamentals of metal cutting. The construction and operation of metal-cutting machinery

Card 1/10

and instruments are described. The fundamentals of methods used in development of techniques of mechanical metal processing are discussed. The name of A.V. Gadolin is mentioned as having contributed to this field. There are 80 references, of which 74 are Soviet, 5 English and 1 German.

TABLE OF CONTENTS:

AVAILABLE: Library of Congress

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GO/ksv
2-26-59

ZOBNIN, N.P., doktor tekhn. nauk, prof.; ROGOV, A.Ya., kand. tekhn. [redacted], dotsent

Investigation and operational testing of axles hardened by cold working. Trudy MIIT no.159:4-29 '62. (MIRA 16:6)

(Car axles—Testing)
(Metals—Cold working)

ZOBNIN, N.P., doktor tekhn. nauk, prof.; KHAPKO, V.U., kand. tekhn. nauk, dotsent

Hardening treatment of axles after prolonged operation. Trudy MIIT no.159:30-52 '62. (MIRA 16:6)

(Car axles—Maintenance and repair)
(Metals—Cold working)

ZABLONSKIY, K.I., prof.; ZOBNIN, N.P., doktor tekhn. nauk, prof.; YUDIN, D.L., kand. tekhn. nauk; dotsent; FILIPOVICH, S.I., inzh.; PORKHACHEV, M.A., inzh.

Stands for hardening treatment and strength testing of the traction transmission gearing of locomotives. Trudy MIIT no.159:75-88 '62. (MIRA 16:6)

(Locomotives—Transmission devices)

ZORNIN, N.P., doktor tekhn. nauk, prof.; ROGOV, A.Ya., kand. tekhn. nauk, dotsent; KHAPKO, V.U., kand. tekhn. nauk, dotsent; YUDIN, D.L., kand. tekhn. nauk, dotsent

Effect of the cold working depth on the service life of axle press joints. Trudy MIIT no.159:89-98 '62. (MIRA 16:6)

(Car axles)
(Metals--Cold working)

ZOBNIN, V.

What problems are given at competitive examinations? Nauka i zhizn' 29 no.6:111-112 Je '62. (MIRA 15:10)
(Mathematics—Problems, exercises, etc.)

ZOBNIN, V.

What problems are given at competitive examinations? Nauka i zhizn' 29 no.5:111 My '62. (MIRA 15:11)
(Mathematics--Problems, exercises, etc.)

ZOBNIN, V.; KAMERILOV, V., inzh.-konstruktor

The "Tula-200K" motor scooter. Za rul. 20 no.4:19 Ap '62.
(MIRA 15:5)
(Motor scooter)

LOTOTSKIY, A.V., inzh.; ZOBNIN, V.A., inzh.; KAMERILOV, V.K., inzh.; SHMELEV, O.F., inzh.; KASPEROVICH, N.S., red.izd-va; EL'KIND, V.D., tekhn. red.

[Catalog of spare parts for "Tula" T-200 and T-200 M motor scooters] Katalog zapasnykh chastei motorollerov "Tula" T-200 i T-200M. Moskva, Mashgiz, 1962. 65 p. (MIRA 16:5)

1. Russia (1917- R.S.F.S.R.)Tul'skiy ekonomicheskiy administrativnyy rayon. Sovet narodnogo khozyaystva.
(Motor scooters--Catalogs)

LOTOTSKIY, A.V., inzh.; ZOBNIN, V.A., inzh.; KAMERILOV, V.K., inzh.; SHMELEV, O.F., inzh.; KASPEROVICH, M.S., red.izd-va; EL'KIND, V.D., tekhn. red.; GORDEYEVA, L.P., tekhn. red.

[Catalog of spare parts of the "Tula" TG-200 motor-scooter truck]Katalog zapasnykh chastei gruzovogo motorollera "Tula" TG-200. Moskva, Mashgiz, 1962. 75 p. (MIRA 15:11)

1. Russia (1917- R.S.F.S.R.)Tul'skiy ekonomicheskiy administrativnyy rayon. Sovet narodnogo khozyaystva.
(Motor scooters—Catalogs)

LOTOTSKIY, Alekasey Vladimirovich, inzh.; ZOBNIN, Vladimir Andreyevich, inzh.; KAMERILOV, Vladimir Konstantinovich, inzh.; SEMENOV, Oleg Filippovich, inzh.; GINTSBURG, M.G., red.; MAKHMSON, V.A., red.izd-va; KL'KIND, V.D., tekhn.red.

[Freight motor scooters] Gruzovye motorollery. Moskva, Gos. nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1961. 163 p. (Motor scooters) (MIRA 14:4)

TURINTSEV, Yu.I., inzh.; ZORNIN, V.I., inzh.; BAKHAREVA, G.P., inzh.

Study of the stability and determination of safe angles of levelled-off sides of the Blyava open-pit mine. Izv.vys.ucheb.zav.; gor.zhur. 5 no.2:97-101 '62. (MIRA 15:4)

1. Ural'skiy nauchno-issledovatel'skiy i proyektnyy institut mednoy promyshlennosti.
(Blyava region--Strip mining) (Blasting)

TURINTSEV, Yu.I.; ZOBNIN, V.I.; BAKHAREVA, G.P.

Effect of blasting on the stability of open pit walls. Bezop. truda v prom. 5 no.4:6-9 Ap '61. (MIRA 14:3)

1. Unipromed'.

(Blasting)

S/282/63/000/001/002/011
A059/A126

AUTHORS: Belyayev, D.V., Zobnin, V.P.

TITLE: The automation of the process of preparation of aqueous solutions of ammonia, amines, and sodium hydroxide

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk, 47. Khimicheskoye i kholodil'noye mashinostroyeniye, no. 1, 1963, 3, abstract 1.47.14 (Vestn. tekhn. i ekon. inform. N.-i. in-t tekhn.-ekon. issled. Gos. kom-ta Sov. Min. SSSR po khimii, no. 2, 1962, 31 - 34)

TEXT: A novel typical program of automatic control for the continuous preparation processes of binary solutions of given concentration was developed at the Gosudarstvennyy in-t prikladnoy khimii (State Institute of Applied Chemistry) which has been tested and introduced into production in many enterprises of the chemical industry. This program secures the maintenance, within given limits, of uniform concentration, temperature, and level of the solution in the reactor, feeding of the initial components, and discharge of the working solution prepared from the reactor in the amounts required. The automation program for

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S/282/63/000/001/002/011
A059/A126

The automation of the process of preparation of ....

the continuous preparation of the aqueous solution of ammonia (amines and sodium hydroxide) of given concentration with an accuracy of its maintenance equal to ± 1 - 3 g/l is described. There are 2 figures and 3 references.

[Abstracter's note: Complete translation]

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ANTOSHIN, Ye.V.

25(5) p3

PHASE I BOOK EXPLOITATION SOV/1361

Spravochnik mekhanika mashinostroitel'nogo zavoda v dvukh tomakh. t. 2: Tekhnologiya remonta (Handbook for Mechanics of Machine-building Plants in Two Volumes. Vol. 2: Technology of Repair Operations) Moscow, Mashgiz, 1958. vii, 1059 p. 40,000 copies printed.

Resp. Ed.: Yu.S. Borisov, Engineer; Ed.: K.G. Tsopin, Engineer; Tech. Ed.: T.F. Sokolova; Eds. of Set: Yu.S. Borisov, Engineer, A.P. Vladziyevskiy, Doctor of Technical Sciences, and R.A. Noskin, Candidate of Technical Sciences; Managing Ed. for Reference Literature (Mashgiz): V.I. Krylov, Engineer.

PURPOSE: This handbook is intended for personnel responsible for repair and maintenance operations in a machinery-manufacturing plant.

COVERAGE: The handbook contains information pertinent to the organization of repair and maintenance operations, design-preparation of maintenance work, and economics of maintenance. Information on scientific research organizations and plants participating in preparation of this volume is included in the coverage of Volume 1 (SOV/1359). There are no references. Basic topics covered include reconditioning and making of parts in maintenance operations; metal-working, hoisting, and pipe-fitting; finishing operations involved in maintenance work; checking parts for precision; basic bench and assembly work; maintenance of power equipment; and maintenance of foundations.

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ZOBIN, V.S.

ANTOSHIN, Ye.V.

25(5) p 3 PHASE I BOOK EXPLOITATION SOV/1361

Spravochnik mekhanika mashinostroitel'nogo zavoda v dvukh tomakh. t. 2: Tekhnologiya remonta (Handbook for Mechanics of Machine-building Plants in Two Volumes. Vol. 2: Technology of Repair Operations) Moscow, Mashgiz, 1958. vii, 1059 p. 40,000 copies printed.

Resp. Ed.: Yu.S. Borisov, Engineer; Ed.: K.G. Tsopin, Engineer; Tech. Ed.: T.F. Sokolova; Eds. of Set: Yu.S. Borisov, Engineer, A.F. Vladisiyevskiy, Doctor of Technical Sciences, and R.A. Noskin, Candidate of Technical Sciences; Managing Ed. for Reference Literature (Mashgiz): V.I. Krylov, Engineer.

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ZOBIN, V.S.

ABRAMOVICH, I.I., prof., ANBINDER, A.G., inzh., ANTOSHIN, Ye.V., insh., ARKHANGEL'SKIY, L.A., inzh., ASTAF'YEV, S.S., kand. tekhn. nauk, AFANAS'YEV, L.A., inzh., BARGSHTEYN, I.I., inzh., BORISOV, Yu. S., inzh., red., BYALYY, I.L., inzh., VETVITSKIY, A.M., inzh., GERSHMAN, D.Kh., inzh., GINZBURG, Z.M., inzh., GOROSHKIN, A.K., inzh., YEVDOKIMCHIK, Kh.I., inzh., ZHIKH, V.A., kand. tekhn. nauk, ZABYVAYEV, Ye. I., kand. tekhn. nauk, [deceased], ZOBIN, V.S., inzh., IVANOV, G.P., kand. tekhn nauk, KAPRANOV, P.N., inzh., KONDRATOVICH, V.M., inzh., KOSTEREV, S.K., inzh., KOVAL'SKIY, N.N., innh., KRUGLYAK, L.A., inzh., LUKYANOV, T.P., inzh., LAPIDUS, A.S., kand. tekhn. nauk, LIVSHITS, G.A., kand. tekhn. nauk, LISHANSKIY, I.M., inzh., MIGALINA, Ye.Ya., inzh., MOSKIN, R.A., kand. tekhn. nauk; .. PRONIKOV, A.S., doktor tekhn. nauk, REGIRER, Z.L., kand. tekhn. nauk, RUDYK, M.A., inzh., SOKOLOVA, N.V., inzh., SAKLINSKIY, V.V., inzh., SAKHAROV, V.P., inzh., TOKAR', M.KH., inzh., TKACHEVSKIY, G.I., inzh., KHRUNICHEV, Yu.A., kand. tekhn. nauk, TSOPIN, K.G., inzh., red.; SHEYNGOL'D, Ye. M., inzh., SOKOLOVA, T.F., tekhn. red.

[Handbook for machinists of machinery plants in two volumes] Spravochnik mekhanika mashinostroitel'nogo zavoda v dvukh tomakh. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry. Vol. 2. [The technology of repair work] Tekhnologiia remonta. Otv. red. toma IU. S. Borisov, 1958. 1059 p. (MIRA 11:10)

(Machinery--Maintenance and repair)
(Machine-shop practice)

ZOBNIN, Ye.F.

Case of myxoma of the thoracic wall of large size. Khirurgiia no.8:130-131 Ag '62. (MIRA 15:8)

1. Iz 1-go khirurgicheskogo otdeleniya (zav. Z.I. Vlasova) II Gorodskoy bol'nitsy Krasnotur'inska Sverdlovskoy oblasti.
(CHEST--TUMORS)

ZOBKIN, Ye.F.

Single-stage retrosternal esophagoplasty using the small intestine following resection of the esophagus and gastrectomy for cancer. Khirurgiia 40 no.9:137 S '64 (MIRA 18:2)

1. Khirurgicheskoye otdeleniye (zav. Ye.F. Zobkin) 1-y gorodskoy bol'nitsy goroda Serova Sverdlovskoy oblasti.

ZOBNIN, Ye. F.

Traumatic rupture of the pericardium and diaphragm in combination with multiple bone injuries. Vest. khir. no.2:121 '62. (MIRA 15:2)

1. Iz 1-go khirurgicheskogo otdeleniya (zav. - Z. I. Vlasova) 2-y gorodskoy bol'nitsy gor. Krasnotur'insk Sverdlovskoy oblasti.

(PERICARDIUM—WOUNDS AND INJURIES)
(DIAPHRAGM—WOUNDS AND INJURIES)
(BONES—WOUNDS AND INJURIES)

ZOBNIN, Ye.F.

Isolated torsion of the fallopian tube following sterilization by the Madlener method. Akush. i gin. no.2:142-143 '64.

(MIRA 18:10)

1. Khirurgicheskoye otdeleniye (zav. - Ye.F.Zobnin) Zvenigorodskoy oblastnoy territorial'noy bol'nitsy (glavnyy vrach F.A.Sventskiy) Moskovskoy oblasti.

S/137/62/000/002/055/144
A006/A101

AUTHORS: Abrikosov, N. Kh., Zobnina, A. N.

TITLE: Investigation of tellurium and antimony compounds with iodine

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 2, 1962, 37, abstract 2Ж292 (V sb. "Vopr. metallurgii i fiz. poluprovodnikov", Moscow, AN SSSR, 1961, 110 - 112)

TEXT: Alloys were prepared with Cy -00 (Su-00) grade Sb, I "pure for analyses", and Te that was previously purified by double distillation in a vacuum. Specimens were prepared by alloying the components in evacuated sealed ampoules. Prior to taking the batches, Sb and Te were crushed in an agate mortar down to 40 mesh. I was taken in the form of individual crystals. The TeI, SbI_3, SbTeI compounds obtained possessed the following properties, respectively: melting point - 184, 171, and 360°C; electric resistivity 26.10^6, 5.10^5 and $1.6.10^4$ ohm.cm; width of the forbidden zone - 1.1; 1.67, and 1.57 ev.

B. Golovin

[Abstracter's note: Complete translation]

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ZOBNINA, B.N., DUDKIN, L.D.

Investigating the thermoelectric properties of the compound $CoSb_3$ with the electroactive impurities Sn, Te, and Ni. Fiz. tver.tela 1 no.12:1821-1827 D '59. (MIRA 13:5)

1. Institut metallurgii imeni A.A.Baykova AN SSSR, Moskva.
(Cobalt antimonide)

ZOBNINA, B.N

PA - 2184

AUTHOR ALEKSEEVA, V.G., ZOBNINA, B.N., KARPOVA, I.V.

TITLE On the Influence of the Heating of Germanium on the Concentration of Thermal Acceptors by means of Electric Current. (Vliyaniye nagre va germaniya elektricheskim tokom na konzentratsiyu termicheskikh aktseptorov.)

PERIODICAL Zhurnal Tekhn. Fiz., 1957, Vol 27, Nr 1, pp 215-217 (U.S.S.R.)

Received 2/1957 Revisewd 4/1957

ABSTRACT S.MAYBURG, Phys.Rev.95, 38 (1954) found that the concentration of the centers of acceptors can be decreased considerably, if germanium is first heated for a long time in a vacuum by means of a parallel current. In order to decide whether the remanent thermoacceptors are lattice defects or atoms of the chemical admixtures, the authors tried to estimate the activation energy and the energetic properties on the occasion of the generation of these thermoacceptors.

The samples investigated of the germanium monocrystals had a specific resistance of 10 - 50 cm.Ohm and measured 2 x 3 x 15-18 mm. The samples were gebeized with 30% peroxyde, washed and then pressed vertically between two tantalium helders. These tantalium holders also served as electrodes. On the occasion of measuring the specific resistance tantalium probes were pressed onto the samples. When heating the samples by means of parallel current (if temperature remains below 700°C) no noticeable decrease of the concentration of the thermoacceptors is observed. At temperatures of more than 700° concentration of thermoaccepters changes considerably. At first the n-type sample changes into a p-type of low resistance, this resistance then increases quickly and finally

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On the Influence of the Heating of Germanium on the Concentration of Thermal Accepters by means of Electric Current.

attains values very near the eigen value. The samples annealed by the alternating current at the same temperatures, changed into hole-like samples and their specific resistance (which first slightly increased) handly changed at all in the course of further heating. The values of the concentration of the thermoaccepters after being heated by parallel current were almost lower by one order of magnitude than the concentration of the thermeaccepters after a heating by alternating current. A diagram illustrates the values of the thermoaccepters corresponding to equilibrium. The data obtained here indicate a decrease of concentration of the thermoaccepters (after a heating by parallel current) as a consequence of electrolysis. The remanent thermoacceptors are probably not due to lattice defects but to very small quantities of other chemical admixtures. (1 illustration)

ASSOCIATION Not given
PRESENTED BY
SUBMITTED 11. 10. 1956
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ZOBINA, K.S.

Regularities in the circulation of bacteriophage in the body and its excretion by the kidneys in infection and immunity. Zhur. mikrobiol., epid. i immun. 40 no.2:37-42 F '63. (MIRA 17:2)

1. Iz Kazanskogo instituta epidemiologii i gigiyeny.

E

Country: USSR
Category: Virology. Bacterial Viruses (Phages)

Abs Jour: Ref Zhur-Biol., No 23, 1958, 103481.

Author : Avkent'yeva, V.A.; Alatyrtseva, I. Ye.; Burukina, A.V.; Zobnina, K. S.; Gel'shan, L.S.; Kuznetsova, G.S.; Minkevich, Ye. I.
Inst : -
Title : The Problem of Increasing the Therapeutic Effectiveness of Dysentery Bacteriophage.

Orig Pub: Sb. Bakteriofagiya, Tbilisi, Gruzmedgiz, 1957, 115-121.

Abstract: Of 337 dysentery cultures isolated in children who were sick with chronic dysentery only 60 percent proved to be sensitive to the usual standard phages. The phages were adapted (to each culture individually)

Card : 1/2

Country : USSR E
Category: Virology. Bacterial Viruses (Phages)

Abs Jour: Ref Zhur-Biol., No 23, 1958, 105487.

Author : Rappe, F. I.; Zobnina, K. S.; Kuznetsova, V. K.; Davydova, K.P.; Dunayeva, N. N.
Title : Development of Methods for Obtaining Highly Active Dysentery Bacteriophage with Consideration of the Microbial Environment in a Focus.

Orig Pub: Sb. Bakteriofagiya. Tbilisi, Gruzmedgiz, 1957, 159-161.

Abstract: Polyvalent dysentery polyphage was prepared by means of adaptation to freshly-isolated cultures (six months old) belonging to representatives of various serological types. The polyphage obtained lysed 94 o/o of 200 cultures tested. Of 80 patients treated with the

Card : 1/2

USSR/General Problems of Pathology. Pathological Physiology of Infection U-3

Abs Jour : Ref Zhur - Biol., No 13, 1958, No 61021

Author : Zobnina K.S.
Inst : -
Title : The Role of Renal Secretions in the Mechanics of Immunity

Orig Pub : Osnovy Immuniteta, Moskva, 1956, 95-100

Abstract : When mice susceptible to dysentery (D), and mice resistant to this infection, were infected with an active dysentery culture, a discharge of active dysentery culture, a discharge of active dysentery bacteriophage was observed in their urine. This may be estimated as a possible manifestation of a specific reaction of the organism, and one of the defense devices safeguarding against infection.

Card : 1/1

ZOBNINA, K.S.; PEREL'SHTEYN, S.B.; RAPPE, F.I. (Kazan')

Production of an adaptive dysenteric bacteriophage and its effectiveness in treating acute dysentery. Kaz. med. zhur. no.5:76-77 S-O '61. (MIRA 15:3)

(DYSENTERY)
(BACTERIOPHAGE)

30995. ZOBNINA, K. S.

K voposu ob ustoychivosti titra suxogo dizenteriynogo bakteriofaga. Sbornik nauch. Trudov (Kazansk. in-t epidemiologii i mikrobiologii), vyp. 1, 1949 [na obl: 1948], s. 175-77

ZOBNINA, K.S.

Distribution of the dysenteric bacteriophage in the organism of inoculated mice in relation to the time the phage was administered and the preceding immunization. Vop.virus. 7 no.6:744 N-D '62. (MIRA 16:4)

1. Kazanskiy nauchno-issledovatel'skiy institut epidemiologii i gigiyeny.

(BACTERIOPHAGE) (DYSENTERY)

ZOBNINA, K S

30996. ZOBNINA, K. S. AND IRINEVA, N. G.

Kislotnye gidrolizaty kak pitatel'nye sybstraty v proizvodstve dizenteriynogo bakteriofaga. Cbornik nauch. Trudor (Kazansk. in-t epidemiologii i mikrobiologii), Vyp. 1, 1949 [na obl: 1948], s. 153-58 Bibliogr: 13 nazv.

ZOBNINA, K.S.

Mechanism of excretion of the dysentery bacteriophage through the kidneys. Zhur.mikrobiol.epid.i immun. no.7:99 Jl '54. (MLRA 7:9)

1. Iz Kazanskogo instituta vaktsin i syvorotok.
(DYSENTERY)

Abstract U-7920, 8 Mar 56

3514

S/058/62/000/002/035/053
A001/A101

24.7700 (1043,1055,1482)

AUTHORS: Abrikosov, N. Kh., Zobnitsa, A. N.

TITLE: Investigations of tellurium and antimony compounds with iodine

PERIODICAL: Referativnyy zhurnal, Fizika, no. 2, 1962, 31, abstract 2E295 (V sb. "Vopr. metallurgii i fiz. poluprovodnikov", Moscow, AN SSSR, 1961, 110-112)

TEXT: The authors describe physical properties and crystalline structure of the following compounds: TeI, TeI_4, SbI_3, SbTeI. They investigated the microhardness, electric conductivity, thermo-emf and heat conductivity of the compounds: TeI, SbI_3 and SbTeI. Using the temperature dependence of electric conductivity, they calculated the values of the widths of forbidden band which turned out to be 1.1 ev for TeI, 2.5 for SbI_3, and 2.1 ev for SbTeI.

B. Ol'khov

[Abstracter's note: Complete translation]

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H/008/60/013/008/001/002
B009/B057

AUTHOR: Zobor, Ervin

TITLE: Reactor Simulators II. Communication

PERIODICAL: Energia és Atomtechnika, 1960, Vol. 13, No. 8, pp. 372-376

TEXT: Simulation of Xenon Poisoning. - Of the two major reactor poisons Xe^{135} alone is treated. The equations of the fission chain of Xe^{135} are written down on the assumption that the immediate fission product be I^{135}. The change of the iodine and xenon concentrations with time is then expressed by differential equations ($\frac{dI}{dt}$ = and $\frac{dX}{dt}$ =), where I and X are the numbers of nuclei per cm^3 of I^{135} and Xe^{135}, respectively. The analog computer circuit of Fig. 9 is designed in such a way that voltages proportional to the iodine and xenon concentrations may be taken off from two potentiometers. It is supposed that of the several factors of the effective multiplication factor, written down for the bare pile, only the thermal utilization factor is modified essentially, and that the former

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is proportional to the latter. As a result, the reactivity caused by poisoning is found to be proportional to the concentration of Xe. - V. The Experimental Model of the Reactor Power Plant. - The approximate equations for a pressurized water reactor (its heat circuit is given in Fig. 10) are written down, and on their basis the electrical model of the power plant proper is drawn in Fig. 11. Considering that the reactivity should have the character of a negative feedback, the principles of the model of a complete nuclear power plant and of the control system are shown in Fig. 12. VI. Measurement of Reactivity With the Reactor Simulator. - The reactivity of a reactor can be measured by determining the inverse function by analog computation. The principle and the measuring arrangement are shown in Figs. 13 and 14, respectively. Summary: The aim of the paper is to give a survey of publications available on reactor simulators and their uses. Estimates of the errors of analog computers as well as problems of their design are not considered. Excepting the xenon-poisoning simulator, only equipments operating with electron-tube amplifiers are shown. At the end of the article there are corrections of the errata in the first publication. There are 6 figures and 11 references: 1 Soviet, 3 US, 4 German, and 1 French.

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Reactor Simulators II. Communication

H/008/60/013/008/001/002
B009/B057

ASSOCIATION: Központi Fizikai Kutató Intézet
(Central Physics Research Institute)

Card 3/3

ZOBOR, Ervin

Application of a BF_3 counting tube as ionization chamber.
Koz fiz kozl MTA 11 no.2:159-160 '63.

H/008/60/013/06/08/011
B122/B011

AUTHOR: Zobor, Ervin

TITLE: Reactor Simulators

PERIODICAL: Energia és Atomtechnika, 1960, Vol. 13, No. 6, pp. 478-483

TEXT: The present article offers a brief survey of the various possibilities of designing reactor simulators. The author first specifies the technical fundamentals of a computer, the operation of which is described by a differential equation system which equals the reactor-kinetic equations. Fig. 1 shows a circuit diagram for carrying out linear mathematical operations which are required for the solution of the time-dependent differential equations. The kinetic differential equation system of the reactor is given. Table 2 shows the parameters of retarded neutrons in U^{235} fission. The following kinetic simulators are dealt with next: 1) Simulators with symmetric amplifiers: a) Reactivity is adjusted by potentiometers or by a change in resistance and the retardation by series-connected RC-members (Figs. 2 and 3). b) Reactivity is adjusted by a voltage change (Fig. 4). c) Simulators with "T" retarding members (Fig. 5). d) The percentage of retarded neutrons can

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Reactor Simulators

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be varied (Fig. 6). 2) Simulators with simple amplifier (Fig. 7 [Abstracter's Note: the text reads Fig. 9 due to a misprint]). 3) Simulators with amplifier with independent input and output potentials (Fig. 8). There are 8 figures and 2 tables.

ASSOCIATION: Központi Fizikai Kutatóintézet (Central Research Institute of Physics)

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ZOBOROVSKIY, A.B.

Investigation of the higher nervous function in rheumatism by using unconditioned and conditioned vascular reflexes. Klin. med. 32 no.10:39-45 O '54. (MLRA 8:1)

1. Iz kafedry gospital'noy terapii (zav. prof. I.V.Vorob'yev) Tomskogo meditsinskogo instituta imeni V.M.Molotova.
(RHEUMATISM, physiology
CNS, typing of higher nervous funct. with vaso. reflexes)
(CENTRAL NERVOUS SYSTEM, in various diseases,
rheum., typing of higher nervous funct. with vasc. reflexes)

POLAND/Chemical Technology - Chemical Products and Their Applications - Corrosion. Corrosion Protection. H.

Abs Jour : Ref Zhur - Khimiya, No 11, 1958, 36574

Author : Zoborwski, G.
Inst :
Title : Dezincification of Brass Concenser Tubes.

Orig Pub : Rudy i Metale Niezel., 1957, 2, No 3, 93-96

Abstract : Depending on the composition of the alloy, the service life of brass tubes (B.T.) varies from 15-2 years. It has been shown that dezincification (D) may have a superficial or local character and that it is a function of the composition and structure of the alloy. The most dangerous type is pitting (D) whose rate reaches several mm/year. Influence of various additives on brass types: M-70, M-68, M-63 and M-60 has been studied. It has been shown that $\alpha+\beta$ 60/40 brass (Muntz metal) is also prone to (D). More resistant is

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S/190/62/004/008/013/016
B101/B180

AUTHORS: Skazka, V. S., Zobov, R. A., Mostepanenko, A. M.

TITLE: Investigation of light scattering and viscosity of polyisobutylene solutions

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 4, no. 8, 1962, 1257-1261

TEXT: Light scattering was applied to determine the linear functions $c/R'_{90} = f(c)$ and $1/(Z' - 1) = f(c)$ and the molecular weight, the second virial coefficient, and the root mean square distance $(\overline{h^2})^{1/2}$ between the ends of the macromolecule of solutions of polyisobutylene (molecular weight $0.28 \cdot 10^4$ - $12.6 \cdot 10^4$) in hexane purified by centrifuging at 20 000 g. The intrinsic viscosity $[\eta]$ of polyisobutylene solutions in hexane, toluene, and in θ solvent was also determined. Results: (1) $[\eta] = 3.6 \cdot 10^{-4} M^{0.62}$; $[\eta] = 3.2 \cdot 10^{-4} M^{0.62}$; and $[\eta] = 7.6 \cdot 10^{-4} M^{0.5}$ for hexane, toluene, and θ solvent respectively, which is in good agreement with the values obtained by T. Fox, P. Flory (J. Amer. Chem. Soc., 79,

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1909, 1951), and W. R. Kriegbaum and P. Flory (J. Polymer Sci., 11, 37, 1953). (2) The equilibrium flexibility $(h_0^2/h_f^2)^{1/2}$ of polyisobutylene molecules was greater than that of the other vinyl polymers. Calculated from viscosity equilibrium flexibility (1.86) is larger than when calculated by light scattering (1.6). W. Kriegbaum and D. Carpenter (J. Phys. Chem., 59, 1166, 1955) attribute this to dependence of the Flory constant Φ on the type of solvent. Direct measurements of $(\overline{h_0^2})^{1/2}$ are to be made, to solve this problem. There are 6 figures and 1 table.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet im. A. A. Zhdanova (Leningrad State University imeni A. A. Zhdanov)

SUBMITTED: June 7, 1961

MOLDOVANSKAYA, G.I.; NOVIKOVA, Ye.N.; SKVORTSOVA, N.I.; ZOBOV, Ye.N.

Utilization of the polarographic method for the analysis of orris oil. Trudy VNIISNDV no.4:194-197 '58. (MIRA 12:5)
(Essences and essential oils--Analysis)
(Polarography)

ZOBOV, Ye. V.

"Polarographic Determination of Volatile Aldehydes and Ketones," Kishinev State U, Min Higher Education, Kishenev, 1955. (KL, No 10, Mar 55)

So: Sum. No 670, 29 Sept 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

Zobov, Ye.V.

USSR/ Analytical Chemistry - Analysis of Organic Substances G-3

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 12172

Author : Zobov Ye.V., Lyalikov Yu.S.
Title : An Experiment on Titration of Aldehyde with 2,4-Dinitro-Phenylhydrazine

Orig Pub : Zh. analit. khimii, 1956, 11, No 4, 459-462

Abstract : On study of polarographic properties of 2,4-dinitro-phenylhydrazine (I) it was found that with a H_2SO_4 background I produces two waves of $E_{\frac{1}{2}}$ - 0.244v and $E_{\frac{1}{2}}$ - 0.510v. With NH_4Cl background half-wave potentials are, respectively, - 0.546 and - 0.808v; with NH_4OH background - 0.566 and - 0.828v. Benzaldehyde (II) produces a wave at potential - 1.0v. By titration at -0.7v there is obtained a rectified portion and a sharp rise of the current following the equivalence point. The resulting residual current (7 a) is constant and does not affect the titration results. On titration with an applied

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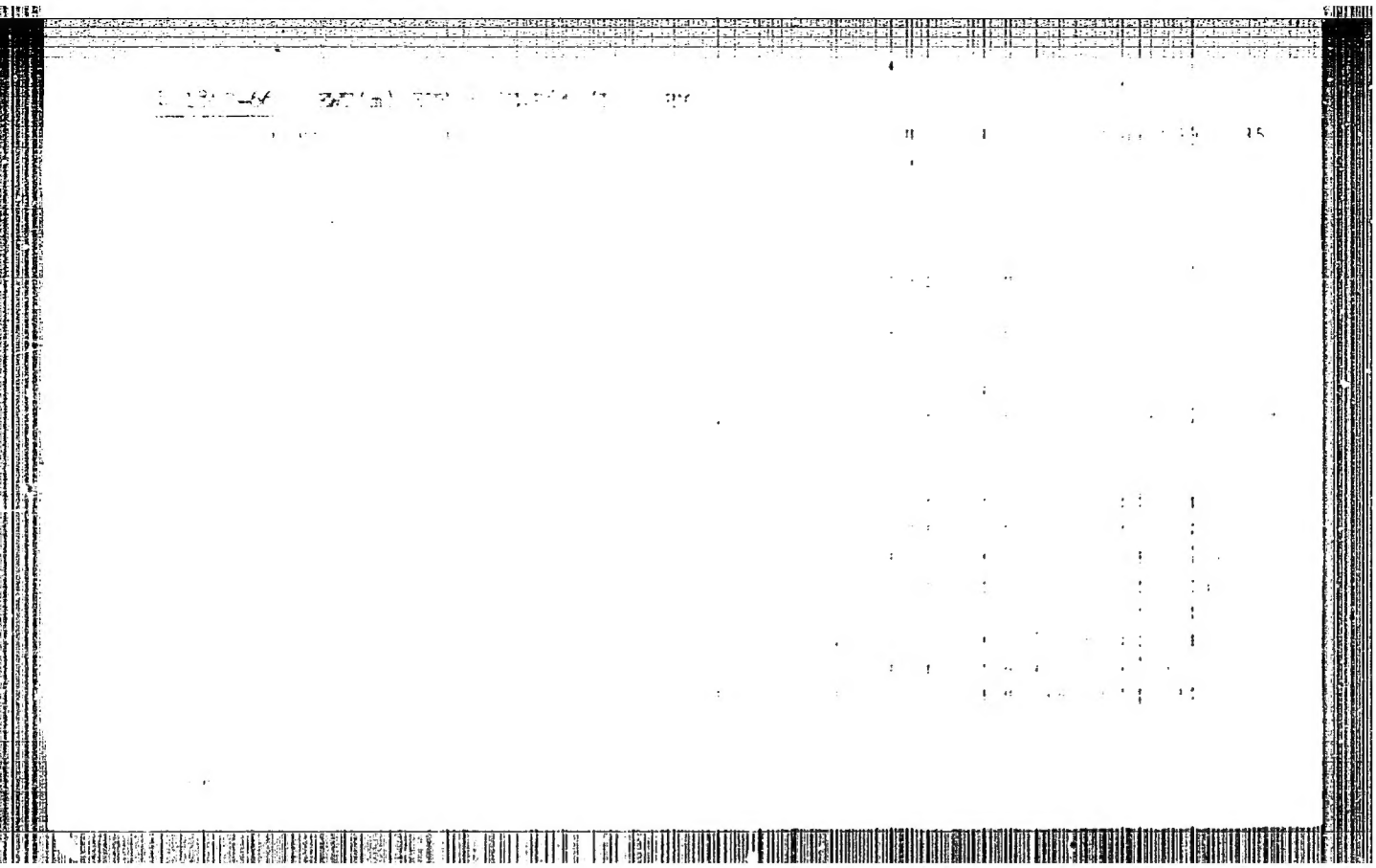
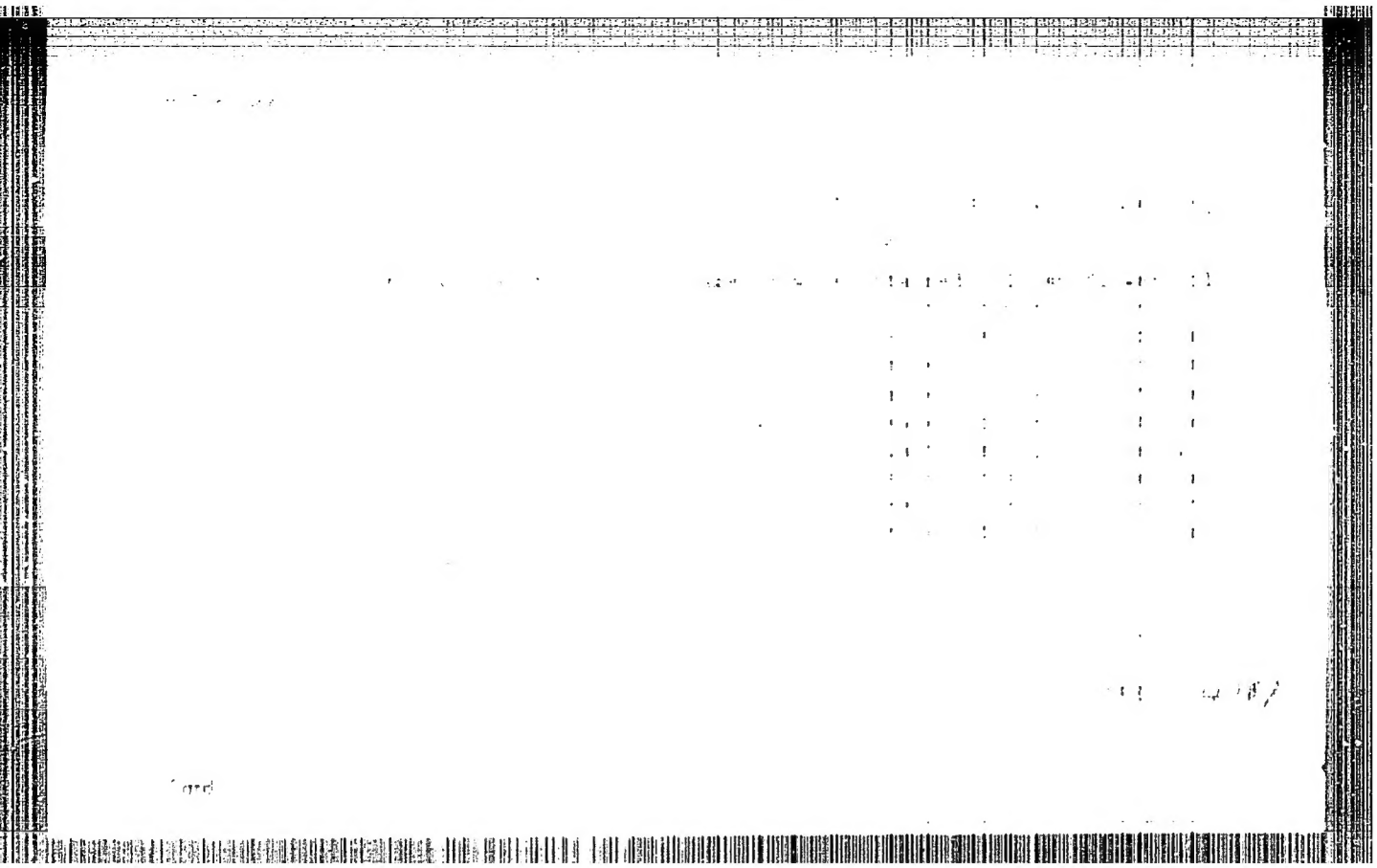
Kishinev State U.

ZOBOV, Ye.V.; TSIPLYAKOVA, V.A.

Electroreduction of vetivone on a dropping mercury cathode in media of various pH values. Zhur.ob.khim. 30 no.5:1417-1420 My '60. (MIRA 13:5)

1. Moldavskiy nauchno-issledovatel'skiy institut pishchevoy promyshlennosti.
(Azulenone)





MATSYUK, L.L.; KHARITON, Kh.Sh.; ZOBOV, Ya.V.

Modification of epoxide resins with furyl resins. Plast. massy no.6:69-70 '63. (MIRA 16:10)